WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Friday, April 01, 2005

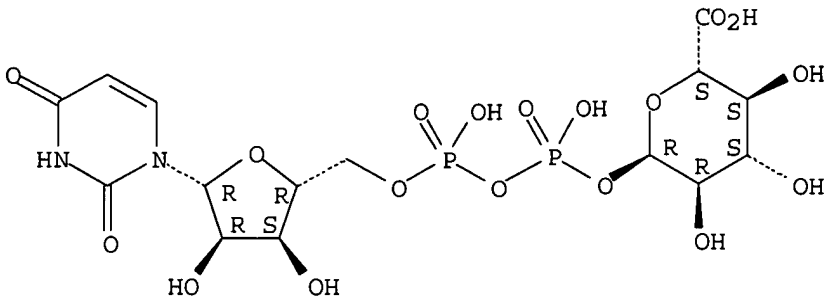
Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT; PLUR=YES; OP=ADJ		
☐	L13	L12 and l8	15
☐	L12	19971118	33
☐	L11	L10 and (microorganism or plant)	495
☐	L10	L9 and udp and transferase	603
☐	L9	Heparin	33477
☐	L8	L7 or l6 or l5 or l4 or l3 or l2 or l1	21989
☐	L7	(536/23.2)!.ccls.	12619
☐	L6	(536/21)!.ccls.	396
☐	L5	(435/252.3)!.ccls.	9090
☐	L4	(435/193)!.ccls.	1819
☐	L3	(435/183)!.ccls.	4844
☐	L2	(435/101)!.ccls.	948
☐	L1	(435/84)!.ccls.	196

END OF SEARCH HISTORY

```
=> s heparin/cn
L1            1 HEPARIN/CN

=> d

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   9005-49-6  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Heparin (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   α-Heparin
CN   Ardeparin
CN   Arteven
CN   Bemiparin
CN   Certoparin
CN   Clevarin
CN   Clivarin
CN   Clivarine
CN   CY 216
CN   CY 222
CN   Dalteparin
CN   Fluxum
CN   FR 860
CN   Fragmin A
CN   Fragmin B
CN   Fraxiparin
CN   H 5284
CN   H 9399
CN   Hapacarin
CN   Heparin subcutan
CN   Heparin sulfate
CN   Heparinic acid
CN   KB 101
CN   Leparan
CN   Livaracine
CN   Mono-embolex
CN   Multiparin
CN   Nadroparin
CN   Novoheparin
CN   OP 386
CN   OP 622
CN   Pabyrn
CN   Parnaparin
CN   Parvoparin
CN   Reviparin
CN   Sandoparin
CN   Sublingula
CN   Tinzaparin
CN   Triofiban
CN   Vetren
CN   Vitrum AB
DR   9075-96-1, 11078-24-3, 11129-39-8, 104521-37-1, 37324-73-5, 91449-79-5
MF   Unspecified
CI   PMS, COM, MAN
PCT  Manual registration, Polyester, Polyester formed
LC   STN Files:   ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
       CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
       CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT,
       IFIUDB, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE,
       MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PIRA, PROMT, PS, RTECS*,
       TOXCENTER, USAN, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, WHO
```

L2 ANSWER 29 OF 29 REGISTRY COPYRIGHT 2005 ACS on STN
RN 2616-64-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN α-D-Glucopyranuronic acid, 1→P'-ester with uridine 5'-(trihydrogen diphosphate) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN α-D-Glucopyranuronic acid, ester with uridine 5'-pyrophosphate (6CI)
CN Glucopyranuronic acid, 1-ester with uridine 5'-pyrophosphate (7CI)
CN Glucopyranuronic acid, 1→5'-ester with uridine 5'-(trihydrogen pyrophosphate), α-D- (8CI)
OTHER NAMES:
CN UDP-D-glucuronic acid
CN **UDP-glucuronic acid**
CN Uridine 5'-diphospho-α-D-glucuronic acid
CN Uridine 5'-diphosphoglucuronic acid
CN Uridine diphosphate glucuronic acid
CN Uridine diphospho-D-glucuronic acid
CN Uridine diphosphoglucuronic acid
CN Uridine pyrophosphoglucuronic acid
FS STEREOSEARCH
DR 14520-48-0, 3545-73-1, 5918-40-1, 27939-24-8, 30329-32-9
MF C15 H22 N2 O18 P2
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, NIOSHTIC, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



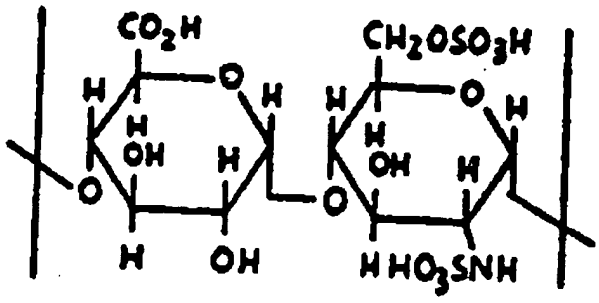
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

734 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
735 REFERENCES IN FILE CAPLUS (1907 TO DATE)
45 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> d full his

     (FILE 'HOME' ENTERED AT 15:48:51 ON 01 APR 2005)

     FILE 'REGISTRY' ENTERED AT 15:49:24 ON 01 APR 2005
L1             1 SEA ABB=ON  PLU=ON  HEPARIN/CN

     FILE 'HCAPLUS' ENTERED AT 15:49:31 ON 01 APR 2005

     FILE 'REGISTRY' ENTERED AT 15:49:34 ON 01 APR 2005
                SET SMARTSELECT ON
L2              SEL PLU=ON  L1 1- CHEM :       49 TERMS
                SET SMARTSELECT OFF

     FILE 'HCAPLUS' ENTERED AT 15:49:34 ON 01 APR 2005
L3         45481 SEA ABB=ON  PLU=ON  L2
L4           133 SEA ABB=ON  PLU=ON  L3 (L) TRANSFERASE
L5            22 SEA ABB=ON  PLU=ON  L4 (L) UDP
L6            10 SEA ABB=ON  PLU=ON  L5 AND PD<19971118
```

21 **Heparin or derivative**

This subclass is indented under **subclass 18.7**. Compounds which are polysaccharides containing the following repeating unit wherein the degree of sulfation of the individual components in the polysaccharide is apparently not uniform and may vary at different areas of the carbohydrate chain, and derivatives thereof.



(1) Note. Heparin is a natural substance which can be found in various tissues of mammals, especially the lung, spleen, liver and muscle, and has been used medicinally for coagulation of blood and metabolism of lipids.

1: Haemostasis. 1990;20 Suppl 1:146-53.

Approaches to the synthesis of heparin.

Lindahl U.

Department of Veterinary Medical Chemistry, Swedish University of Agricultural Sciences, Uppsala.

The biosynthesis of heparin is initiated by formation of [GlcA-GlcNAc]n polysaccharide chains linked to the core protein of a proteoglycan structure. The polymer is transformed into the mature polysaccharide by a series of modification reactions which involve N-deacetylation and N-sulfation of GlcNAc units, C5 epimerization of GlcA to IdoA residues, and O-sulfation at different positions. Incomplete modification, controlled in part by the substrate specificities of the corresponding enzymes, provides the complex saccharide sequences that are typical for heparin and, in particular, for heparan sulfate. One such structure is the antithrombin-binding region which is comprised by a specific pentasaccharide sequence with a 3-O-sulfated GlcN marker group. Aspects of regulation of polymer modification are discussed.

Publication Types:
- Review
- Review, Tutorial

PMID: 2083867 [PubMed - indexed for MEDLINE]